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OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/956,998

DATE: 11/30/2001

TIME: 15:51:30

Input Set : N:\Crf3\RULE60\09956998.txt

Output Set: N:\CRF3\11212001\I956998.raw

RECEIVED
JAN 18 2002
TECH CENTER 1600/2900

ENTERED

4 <110> APPLICANT: Black Jr., Charles A.
6 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR ACTIVATING
7 GENES OF INTEREST
9 <130> FILE REFERENCE: 5722-2(35722/191928)
11 <140> CURRENT APPLICATION NUMBER: 09/956,998
12 <141> CURRENT FILING DATE: 2001-09-20
14 <150> PRIOR APPLICATION NUMBER: 09/446,402
15 <151> PRIOR FILING DATE: 1999-12-20
17 <150> PRIOR APPLICATION NUMBER: 60/050,772
18 <151> PRIOR FILING DATE: 1997-06-25
20 <160> NUMBER OF SEQ ID NOS: 19
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 4279
26 <212> TYPE: DNA
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Recombinant Molecule containing multiple cloning
31 site, kozak sequence, LacZ gene.
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (1)...(64)
35 <223> OTHER INFORMATION: Multiple cloning site
37 <221> NAME/KEY: misc_feature
38 <222> LOCATION: (65)...(79)
39 <223> OTHER INFORMATION: Consensus sequence for the "Kozak sequence"
40 (translation initiation)
42 <221> NAME/KEY: prim_transcript
43 <222> LOCATION: (80)...(4279)
44 <223> OTHER INFORMATION: Beta galactosidase
46 <400> SEQUENCE: 1
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48 ccgggccgccc gccaccatgg cgcagcacca tggcctgaaa taacctctga aagaggaact 120
49 tggtaggta ccttctgagg cggaaagaac cagctgtgga atgtgtgtca gttagggtgt 180
50 ggaaagtccc caggctcccc agcaggcaga agtatgcaaa gcatgcatct caattagtca 240
51 gcaaccagggt gtggaaagtc cccaggctcc ccagcaggca gaagtatgca aagcatgcat 300
52 ctcaattagt cagcaaccat agtcccgcgc ctaactccgc ccatcccgcg cctaactccg 360
53 cccagttccg cccattctcc gccccatggc tgactaattt tttttattta tgcagaggcc 420
54 gaggccgcct cggcctctga gctattccag aagtagtgag gaggcctttt tggaggccta 480
55 ggcttttgca aaaagcttgg gatctctata atctcgcgca acctattttc ccctcgaaca 540
56 ctttttaagc cgtagataaa caggctggga caattcacat gagcgaaaaa tacatcgta 600
57 cctgggacat gttgcagatc catgcacgta aactcgcaag ccgactgatg ccttctgaac 660
58 aatggaaagg cattattgcc gtaagccgtg gcggtctggt accggtgggt gaagaccaga 720
59 aacagcaoct cgaactgagc cgcgatattg cccagcggtt caacgcgctg tatggcgaga 780
60 tcgatcccggt cgttttacaa cgtcgtgact gggaaaaccc tggcgttacc caacttaatc 840
61 gccttgacgc acatccccct ttcgccagct ggcgtaatag cgaagaggcc cgcaccgatc 900
62 gcccttccca acagttgcgc agcctgaatg gcgaatggcg ctttgccctg tttccggcac 960
63 cagaagcggt gccggaaagc tggctggagt gcgatcttcc tgaggccgat actgtcgtcg 1020

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64	tcccccaaaa	ctggcagatg	cacgggttacg	atgcgcccat	ctacaccaac	gtaacctatc	1080
65	ccattacggt	caatccgcgc	tttgttccca	cggagaatcc	gacgggttgt	tactcgctca	1140
66	catttaaatgt	tgatgaaagc	tggttacagg	aaggccagac	gcgaattatt	tttgatggcg	1200
67	ttaaactcggc	gtttcatctg	tggtgcaacg	ggcgctgggt	cggttacggc	caggacagtc	1260
68	gtttgccgtc	tgaatttgac	ctgagcgcac	ttttacgcgc	cggagaaaac	cgcctcgcgg	1320
69	tgatgggtgct	gcgttggagt	gacggcagtt	atctggaaga	tcaggatatg	tggcggatga	1380
70	gcggcattttt	cgtgacgtc	tcgttgctgc	ataaacccgac	tacacaaatc	agcgatttcc	1440
71	atgttgccac	tcgctttaat	gatgatttca	gccgcgctgt	actggagggt	gaagttcaga	1500
72	tgtgcggcga	gttgcgtagc	tacctacggg	taacagtttc	tttatggcag	ggtgaaacgc	1560
73	aggtcgccag	cggcaccgcg	cctttcggcg	gtgaaattat	cgatgagcgt	ggtggttatg	1620
74	ccgatcgcgt	cacactacgt	ctgaacgtcg	aaaacccgaa	actgtggagc	gccgaaatcc	1680
75	cgaatctcta	tcgtgcggtg	gttgaaactgc	acaccgccga	cggcacgctg	attgaagcag	1740
76	aagcctgcga	tgtcggtttc	cgcgaggtgc	ggattgaaaa	tggtctgctg	ctgctgaacg	1800
77	gcaagccggtt	gctgattoga	ggcgtttaacc	gtcacgagca	tcctcctctg	catggtcagg	1860
78	tcatggatga	gcagacgatg	gtgcaggata	tcctgctgat	gaagcagaac	aactttaacg	1920
79	ccgtgcgctg	ttcgcattat	ccgaaccatc	cgtctgtgta	cacgctgtgc	gaccgctacg	1980
80	gcctgtatgt	ggtggatgaa	gccaatattg	aaacccacgg	catggtgccg	atgaatcgtc	2040
81	tgaccgatga	tcgcgcgtgg	ctaccggcga	tgagcgaacg	cgtaacgcga	atggtgcagc	2100
82	gcgatcgtaa	tcacccagat	gtgatcatct	ggtcgcgtgg	gaatgaatca	ggccacggcg	2160
83	ctaatacaga	cgcgctgtat	cgtggatca	aatctgtcga	tccttccgcg	ccggtgcagt	2220
84	atgaaggcgg	cggagccgac	accacggcca	ccgatattat	ttgcccgatg	tacgcgcgcg	2280
85	tggatgaaga	ccagcccttc	ccggctgtgc	cgaatgggtc	catcaaaaaa	tggctttcgc	2340
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87	ttggcgggtt	cgtctaaatac	tggcaggcgt	ttcgtcagta	tccccgttta	cagggcggct	2460
88	tcgtctggga	ctgggtggat	cagtcgctga	ttaaatatga	tgaaaacggc	aaccgcgtgt	2520
89	cggcttacgg	cgggtgattt	ggcgatacgc	cgaacgatcg	ccagttctgt	atgaacggtc	2580
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95	ccgcattggtc	agaagccggg	cacatcagcg	cctggcagca	gtggcgctctg	gcggaaaacc	2940
96	tcagtgtgac	gctccccgcc	gcgtcccacg	ccatcccgcg	tctgaccacc	agcgaatggg	3000
97	atttttgcac	cgagtgggt	aataagcgtt	ggcaatttaa	ccgccagtca	ggctttcttt	3060
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102	ggaaaacctt	atttatcagc	cggaaaacct	accggattga	tggtagtggg	caaattggcg	3360
103	ttaccgttga	tgttgaagtg	gcgagcgata	caccgcaccc	ggcgcggtat	ggcctgaact	3420
104	gccagctggc	gcaggtagca	gagcgggtaa	actggctcgg	attagggccg	caagaaaact	3480
105	atcccagaccg	ccttactgcc	gcctgttttg	accgctggga	tctgccattg	tcagacatgt	3540
106	atacccogta	cgtcttcccg	agcgaacacg	gtctgcgctg	cgggacgcgc	gaattgaatt	3600
107	atggcccaca	ccagtggcgc	ggcgacttcc	agttcaacat	cagccgctac	agtcaacagc	3660
108	aactgatgga	aaccagccat	cgccatctgc	tgcacgcgga	agaaggcaca	tggctgaata	3720
109	tcgacggttt	ccatatgggg	attggtggcg	acgactcctg	gagcccgtca	gtatcggcgg	3780
110	aattccagct	gagcgcgggt	cgtaccatt	accagttggt	ctggtgtcaa	aaataataat	3840
111	aaccgggcag	gccatgtctg	cccgtatttc	gcgtaaggaa	atccattatg	tactatttaa	3900
112	aaaacacaaa	cttttggatg	ttcggtttat	tctttttctt	ttactttttt	atcatgggag	3960

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113 cctacttccc gtttttcccg atttggtac atgacatcaa ccatatcagc aaaagtgata 4020
114 cgggtattat ttttgcgct atttctctgt tctcgtatt attccaaccg ctgtttggtc 4080
115 tgctttctga caaactcgga acttgtttat tgcagcttat aatggttaca aataaagcaa 4140
116 tagcatcaca aatttcacaa ataaagcatt tttttcactg cattctagtt gtggtttgtc 4200
117 caaactcatc aatgtatctt atcatgtctg gatcctctag agtcgacctg caggcatgca 4260
118 agctggcact ggccgctcgt 4279
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123 <213> ORGANISM: Artificial Sequence
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126 <223> OTHER INFORMATION: Synthetic oligonucleotide
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132 <211> LENGTH: 13
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
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140 gaatacaaag ctt 13
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 20
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Synthetic oligonucleotide
150 <400> SEQUENCE: 4
151 aaagcttatg catgcggccg 20
153 <210> SEQ ID NO: 5
154 <211> LENGTH: 20
155 <212> TYPE: DNA
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161 <400> SEQUENCE: 5
162 cggccgcac tagagggccc 20
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 25
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
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173 gcggccgcat ctagagggcc cggat 25
175 <210> SEQ ID NO: 7
176 <211> LENGTH: 24
177 <212> TYPE: DNA

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178 <213> ORGANISM: Artificial Sequence
180 <220> FEATURE:
181 <223> OTHER INFORMATION: Synthetic oligonucleotide
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186 <210> SEQ ID NO: 8
187 <211> LENGTH: 30
188 <212> TYPE: DNA
189 <213> ORGANISM: Artificial Sequence
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Synthetic oligonucleotide
194 <400> SEQUENCE: 8
195 aatacaaagc ttatgcatgc ggccgcatct 30
197 <210> SEQ ID NO: 9
198 <211> LENGTH: 20
199 <212> TYPE: DNA
200 <213> ORGANISM: Artificial Sequence
202 <220> FEATURE:
203 <223> OTHER INFORMATION: Synthetic oligonucleotide
205 <400> SEQUENCE: 9
206 catgcataag ctttgtattc 20
208 <210> SEQ ID NO: 10
209 <211> LENGTH: 13
210 <212> TYPE: DNA
211 <213> ORGANISM: Artificial Sequence
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214 <223> OTHER INFORMATION: Synthetic oligonucleotide
216 <400> SEQUENCE: 10
217 aagctttgta ttc 13
219 <210> SEQ ID NO: 11
220 <211> LENGTH: 20
221 <212> TYPE: DNA
222 <213> ORGANISM: Artificial Sequence
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Synthetic oligonucleotide
227 <400> SEQUENCE: 11
228 cggccgcatg cataagcttt 20
230 <210> SEQ ID NO: 12
231 <211> LENGTH: 20
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Synthetic oligonucleotide
238 <400> SEQUENCE: 12
239 gggccctcta gatcgggccg 20
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242 <211> LENGTH: 25
243 <212> TYPE: DNA
244 <213> ORGANISM: Artificial Sequence

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246 <220> FEATURE:
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 255 <213> ORGANISM: Artificial Sequence
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 264 <211> LENGTH: 30
 265 <212> TYPE: DNA
 266 <213> ORGANISM: Artificial Sequence
 268 <220> FEATURE:
 269 <223> OTHER INFORMATION: Synthetic oligonucleotide
 271 <400> SEQUENCE: 15
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 274 <210> SEQ ID NO: 16
 275 <211> LENGTH: 1798
 276 <212> TYPE: RNA
 277 <213> ORGANISM: Unknown
 279 <220> FEATURE:
 280 <223> OTHER INFORMATION: mRNA sequence for Firefly luciferase
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 284 aaaaacauaa agaaaggccc ggcgccauuc uauccucuag aggauggaac cgcuggagag 120
 285 caacugcaua aggcuaugaa gagauacgcc cugguuccug gaacaauugc uuuuacagau 180
 286 gcacauaucg aggugaacau cacguacgcg gaauacuucg aaauugccgu ucgguuggca 240
 287 gaagcuauga aacgauaugg gcugaauaca aaucacagaa ucgucguaug cagugaaaac 300
 288 ucucuucuuu ucuuuauugc gguguugggc gccguuuuuu aucggaguug caguugcgcc 360
 289 cgcgaagcac auuuauaaug aacgugaauu gcucaacagu augaacaauu cgcagccuac 420
 290 cguaguguuu guuuccaaaa agggguugca aaaaauuuug aacgugcaaa aaaaauuacc 480
 291 aauaauccag aaaaauauua ucauggauuc uaaaacggau uaccagggaug uucagucgau 540
 292 guacacguuc gucacauuc ucuaaccucc cgguuuuuuu gaauacgauu uguuaccaga 600
 293 guccuuugau cgugacaaaa caauugcacu gauaaugaau uccucuggau cuacuggguu 660
 294 accuaagggg ugggcccuc cgcuaagaac ugccugcguc agauucucgc augccagaga 720
 295 uccuauuuuu ggcaaucaaa ucauuccgga uacugcgauu uuaaguguug uuccauucca 780
 296 ucacgguuuu ggaauguuuu cuacacucgg auauuugaua uguggauuuc gagucgucuu 840
 297 aauguauaga uuugaagaag agcuguuuuu acgaucuuu caggauuaca aaaucaaaag 900
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VERIFICATION SUMMARY

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